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APPLICATION
FOR
UNITED STATES LETTERS PATENT

TITLE: CONSIGNMENT NODES

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CONSIGNMENT NODES

BACKGROUND OF THE INVENTION

The present invention relates to used and collectible goods offered for sale by an electronic network of consignment stores. More specifically, the 5 present invention may be an electronic "market maker" for collectable and used goods, a means for electronic "presentment" of goods for sale, and an electronic agent to search the network for hard to find goods.

Certain items and used goods have a large following of collectors. These items include baseball cards, dolls, pens, watches, comic books, stamps, 10 coins, and the like. It is well known to establish shops specializing in these items. It is also well-known to establish boards for the sale of used goods. And is known to sell new goods on a special television channel like the Home Shopping Channel.

The prior art does not provide a means to electronically market used 15 goods or provide an avenue to allow participants to speculate on the price of collectable or used goods in an electronic market place. Thus, to address the short comings of the art the present invention has the following objectives:

SUMMARY OF THE INVENTION

To establish a computer means for a used good store or consignment 20 store to sell used goods and collectibles electronically and to provide the automatic electronic re-sale of goods purchased.

To establish a market for goods with a dominant electronic "market maker" node to allow collectors to speculate on the collectable goods market.

To provide the excitement of a "live" auction house type atmosphere to remote participants in a electronic auction.

To provide data analysis to the market makers of collectable good or consignment node users on the price, price movements, and quantity of 5 collectable goods in the virtual market.

To provide an electronic agent interface for participants to search a plurality of consignment nodes to search for a used good or collectable item.

To provide a means to track down the owner of a particular used or collectable good.

10 Further, to provide a trusted network of consignment nodes to provide a means to electronically present a used good or collectable to an electronic market.

The present invention is a network of consignment nodes. A consignment node is a computer database of used goods preferably operated 15 by a used good, collectable shop keeper or a bailee. All consignment nodes users or operators, hereinafter users, are "trusted" licensees or franchisers of the software and hardware necessary to create and operate a consignment node. Thus, the network provides a trusted means for consignment node users, e.g. shop keepers, to establish electronic markets for collectable goods, 20 establish electronic auctions, establish a means for searching each others shops to locate hard to find collectibles items, and a means to electronically present goods to a market. The present invention will allow, or license,

- certain consignments nodes to become a dominant market maker for a particular class of goods, for example, a consignment node franchise may be given the rights to establish the dominant market for collectable antique pens.
- Other consignment nodes, after taking physical possession of a good, may
- 5 make an electronic presentment of that good to such a dominant consignment node market. Thus, a local collector of antique pens may bring a pen to a convenient consignment node in small town, USA, the consignment network would allow this collector to electronically "present" his pen to the dominant market make node for antique pens in for example, Chicago.
- 10 Participants, e.g. customers and collectors (hereinafter "participants"), may reach a dominant node's market, or any other consignment nodes electronic store, from his or her home by logging on from a PC located at the participant's home to their locally operated consignment node and reaching the distant consignment node through the network of consignment nodes.
- 15 Thus, each consignment node user, e.g. shop keeper, has a potential participant, i.e. customer base, of all consignment node participants. In other words, a potentially huge customer base that incurs the minimal cost of a local consignment node connection may reach any other consignment node through the consignment node network. And local collector's may
- 20 economically participate in the collectable markets by using local access to a convenient consignment node "trusted" bailee, and electronically presenting collectable goods to a dominant market.

A consignment node in a simple form may have a computer 10, a digital camera 12, a bar code scanner 14, a display 16, a printer 20, a keyboard 18, a database 22 and a network connection 26 collectively called hereinafter a consignment node. The present invention also has a user interface 5 application program to execute an a user or participant's data terminal 28.

The consignment node may have four modes of operation: a software download mode, an auction mode, a market mode, and an agent mode. The software download mode allows a participant to log into the consignment node and receive a download of a participant interface application program.

10 The auction mode allows a participant, from the participant interface application program, to log into a consignment node to partake in an electronic auction. The market mode allows a participant with the participant interface program to log into a consignment node to browse the consignment node database to search for a used or collectable good. The agent mode allows 15 a participant to log into a consignment node to formulate a search request for a particular used good or collectable. The consignment node may search its own database for the requested good and/or generate agents to search and report back a search request of other consignment nodes.

The present invention may allow a participant to electronically 20 purchase goods from a consignment node and to select whether the good should be shipped to a participant designed location or the participant may take electronic legal ownership of a good and post a new participant defined offer or reserve price. By the interaction of a plurality of participants buying

and selling collectibles on a consignment node, posting "buy at" and "sell at" quantities and prices the consignment node may establish a market or become a "market maker" for collectable goods. A participant may also elect to electronically transfer or present a good to a different consignment node or 5 market. This allows a participant to speculate with collectable goods on the consignment node network's different markets and not incur the shipping costs with physically moving the goods, while providing a trusted means to assure potential buyers of the good's bona fide availability.

The consignment node operator or purveyor, hereinafter referred to as 10 the consignment node user, establishes his consignment node by creating a database of used goods or collectibles, hereinafter the term "goods" shall be used to reflect used goods, new goods and collectibles. The user takes the first good to be put on the database and invokes the consignment node software to create a data record. For example, the user owns a baseball card collector shop 15 and the user wants to post his Babe Ruth collection. The user in this instance invokes the consignment node to "build the database mode" and the invention initializes the digital camera 15. The user then "photographs" or digitizes the image of the particular Babe Ruth card. The consignment system then displays an empty database record on the display to accept text 20 information concerning the card.

The user fills out the display record with information concerning the particular Babe Ruth card. The consignment node verifies that enough information has been filled out in the displayed computer record, as well

known to the electronic database arts, and accepts the record. It should be noted that the consignment node database record has data fields for the consignment node user to add value to his consignment node postings with subjective information such as condition of the card, special features such as 5 autographed by Babe Ruth, and the like. Thus, the consignment node user may build business goodwill into his particular consignment node operation by establishing his own particular subjectivity and quality standards in item postings.

After the data record or the particular Babe Ruth card is accepted by the 10 consignment node the system may print out a bar code label on the printer 20.

The user may then put the particular Babe Ruth card into a plastic bag and affix the bar code label to the bag. The bar code labeling system becomes a useful inventory management tool discussed below.

It is understood in this first example that the consignment node user is 15 the legal and equitable owner of the Babe Ruth card and that the user posted a reserve or offer price on the particular card at his posting. In a second illustrative example, a local resident would like to post, for example, his Frank Robinson baseball card. The resident brings his Frank Robinson card to the baseball card store and tells the consignment node user he would like to 20 offer his Frank Robinson card for a consignment sale. Again, the consignment node user invokes the system database posting mode and "photographs" the Frank Robinson card with digital camera 12. As above, the user fills in the system generated display prompt for information

concerning the Frank Robinson card. The resident informs the user of the reserve or offer price and signs or agrees to a consignment contract with the consignment node user to accept the consignment terms to pay the consignment node user on the sale of the card, for example 6%, of sales price 5 as a consignment fee. Again, the system may print the appropriate bar code for the Frank Robinson card. The consignment node user then takes possession of the card and may affix the bar code label to an appropriate cardholder. It should be noted by the consignment node user may again "add value" to his consignment node by entering subjective criteria in the database 10 entry for authenticity, condition, special attributes and the like. The participant or local resident may now electronically present his Frank Robinson card to any consignment node, consignment node auction or consignment node market maker in the consignment node network.

These processes may be repeated again and again to establish a 15 substantial database of goods for sale. It should be noted that the consignment node user may at his discretion take postings from reputable dealers or collectors via a facsimile machine or other forms of electronic or verbal presentation of a good for sale. It is within the sound discretion of an individual consignment node user to establish these practices. It is within the 20 scope of the invention, however, to take electronic postings from other consignment node users or individuals over the network, as discussed below.

Each consignment node user may be a franchisee of a central franchiser and the franchiser may police the network to give quality control, detect fraud and

revoke the franchises or licenses of poor quality consignment node users. Thus, the consignment node is a "trusted" network for consignment node users providing value to the network by imposing a quality and performance structure on the consignment nodes.

5

The Sale

A buyer, hereinafter participant, may electronically log onto a consignment node via a network connection by use of a PC with participant interface software, through an interactive television application, workstation 10 or the like. The network connection drivers for the consignment node are discussed in detail below. The participant may enter the browse node and peruse the consignment node database of goods. It is understood that the participant may receive the image taken with a digital camera 12 of the goods at the participant terminal. The participant, upon finding for example the 15 above-posted Frank Robinson card may decide to purchase the card. The participant may present electronic payment to the consignment node by entering a credit card number and expiration date or other forms of electronic payment. It is understood that a secure and/or encrypted means may be established between a participant's interface application and a consignment 20 node to transfer sensitive or theft prone information. Moreover, a participant may establish an account with his local consignment node to be debited and credited with the funds used and generated with his transactions. The consignment node may, for example, clear the transaction by

charging the participant's charge card account and crediting the consignment node store account by well-known credit card clearing techniques. After the consignment node has cleared the transaction the system electronically transfers ownership of the Frank Robinson card to the participant. The 5 participant may then be presented with the choice of directing the delivery of the Frank Robinson card to a desired location or may choose to post a new reserve or offer price for the card and direct the card to remain in the possession of the consignment node user. Thus, the consignment node allows a participant to speculate on the price of the Frank Robinson card and 10 establishes an electronic market for the Frank Robinson card. It is understood that the consignment node may have many Frank Robinson cards available, thus by the interaction of collectors electronically buying and selling the collectibles it will establish a market price for a Frank Robinson card or any other good. For each transaction, the consignment node user extracts the 15 small consignment fee, e.g., 6% of the sales price, thus the consignment node user directly benefits from operating a reputable consignment node. If the participant elects to take delivery of the purchased goods then the consignment node may track the delivery and ownership of this good to this particular participant in a data record. This data record may be useful to speed 20 the posting of the good, should the participant later decide to re-post and sell the good, and it also creates a valuable database of records to track the possession and ownership of a collectable. This feature may be useful in the agent mode, e.g., tracking down very hard to find items, discussed more fully

below.

The Auction

For a rare good, a good in a volatile market, or a good's initial posting the consignment node user or participant may wish to auction the good, with 5 or without reserve, to the highest bidder. In this mode, the good may be posted on the consignment node by the means described above but the data record representing the good is identified as waiting for an auction date and may not be purchased on the electronic market. Alternatively, an item may be in the electronic market of the consignment node with a high reserve price 10 that may be lowered in the auction or liquidation mode. Here the consignment node user or the good's participant owner may enter a protected data field a confidential reserve price for the auction mode. The consignment node user arranges by invoking the appropriate consignment node program a time and date for an electronic auction. The consignment node user or good's 15 participant owner may establish, in a data record that represents the good, a desire for the item to be auctioned. For example, a pawnshop operator of a consignment node may have several Rolex watches he wishes to auction with reserve this Saturday night at 7:00 p.m. The consignment node user, here a pawnshop, identifies on the Rolex watch records the auction date and 20 the confidential reserve price. The consignment node system may "advertise" auction dates, items and auction terms in the consignment node log on welcome message discussed below. Moreover, a good that is identified as awaiting an auction date may be viewed before auction in the consignment

node browse mode by a perspective auction participant.

At the auction date, perspective participants log onto the consignment node auction mode locally or through the consignment node network and await the first good to be auctioned. It is understood that in the best mode of 5 the invention the participant will have a data terminal with a digital to analog converter such as a "sound blaster" and speaker, the digital to analog capability may be used in the auction mode to bring the aural excitement of an auction, e.g., the call of the heckler, the caller and bidders, home to the auction participant. This is discussed in more detail below.

10 The consignment node takes the first item to be auctioned and posts the image of the good and the good's text record to the participants. The consignment node then posts the opening bid. It is understood that the bid postings may be in a protocol that invokes the generation of an auctioneer's voice at the participant terminals. The participants may then respond with a 15 higher bid. The consignment node mode scans electronically the participants for bids and accepts the highest bid. If bids are tied the consignment node may take the first highest bid by the participants log on order. A particular bidding participant receives a special acknowledgment from the consignment node that her bid was accepted. The consignment node then posts the higher bid to 20 all the electronic auction participants. The consignment node repeats this process until no higher bid is received for a predetermined amount of time and closes the auctioning of that particular good. The consignment node then checks whether the highest bid received is greater than the reserve price,

if appropriate. The consignment node may then post sold! and the sell price to all participant terminals and proceed to post the next item for auction.

Again a successful purchaser may elect to direct delivery of the good or post the good on the electronic market at a new participant determined offer price.

5 It is understood that the terms of the auction sale are posted and agreed to by the participants before allowing a participant to bid on goods in compliance with local requirements and statutes. It is also understood that a participant may make electronic payment for the goods or establish a line of credit or collect on delivery terms within a particular consignment node
10 user's discretion. This may be established by a relationship between a local consignment node user and a local participant at the local consignment user's discretion.

It should be noted that a consignment node user may sell virtual advertising space or a central master node e.g., the franchiser, may coordinate
15 the sale of advertising space on a pool of consignment nodes to reach target market participants. For example, if a participant has purchased or speculated in antique pens, and advertisers of an antique pen specially consignment node wishes to target market individuals on the network who have purchased collectable pens in the past. A central coordinated master node
20 may sell advertising to an advertiser for the log on message or e-mail targeted participants and users. Thus, the network of consignment nodes can establish a market for target marketing or blanketed advertising of goods and services sold locally or on a network level by a central node.

The Agent

The Agent Mode allows a consignment node participant to search a plurality of consignment nodes and purchase records for a used good. A 5 participant may log onto his local consignment node to shop. This participant, for example, may be interested in purchasing a particular used coin for her collection. The participant may invoke a consignment node Agent to search the network of consignment nodes for this coin. The participant fills in the search parameters for this coin, for example, a 1872 U.S. 10 penny from the Denver Mint. The consignment node Agent task handler verifies the Agent form is sufficiently filled out and accepts the task. The Agent checks a list of other consignment nodes network addresses kept by the local consignment node database and generates an Agent communication message to each consignment node on the list and begins to establish 15 communications to the other consignment nodes. An Agent message between consignment nodes begins by coordinating or reconciling the database on each consignment node of the locations and/or address of other consignment nodes. If a consignment node has a different list of consignment nodes in its database it will pass the node update information to 20 the other consignment node. The consignment node originating the Agent task will generate a new Agent task to accommodate the information concerning the new consignment node. Once the consignment node database of consignment nodes is reconciled, the Agent will search the consignment

node database for the goods requested. The Agent will report back whether the search of the local market database was successful and how many good that matches the Agent search request it found. An Agent may also search the consignment node database of past transactions to identify an owner of a
5 particular good. The Agent may then report that John Doe of Main Street, U.S.A. was the last known purchaser of a 1872 U.S. penny from the Denver Mint at this node. It is understood that differing levels of privacy are available to consignment node purchasers, so as only allowing the local consignment node user to view past purchaser information and/or provide
10 the Agent with an option of contacting that consignment user so he may contact the prior purchaser, thus, protecting privacy while allowing bona fide offers to reach the prior purchaser in confidence.

Once some of the Agents start reporting back to the Agent originating consignment node, the originating consignment node may report the results
15 to the consignment node participant of the Agents' results. Such results may give the total number of matching items found thus providing the local participant/collector an indication of the depth of this market. It is understood that a local consignment node user may charge participants for Agent requests.

20 Computer Implementation

In the preferred embodiment of the present invention a consignment node may use a multitasking operating system such as UNIX, OS/2 or VMS. However, a Microsoft DOS or Windows implementation is within the scope

of the present invention. The consignment node may be networked via TCP/IP and the internet or a private TCP/IP network or X.25 private or public network or service providers network of ISDN, ATM and the like. It is understood, that a consignment node may support a plurality of protocols simultaneously. Moreover, it is understood that the participant interface application program may execute on a wide variety of platforms such as PC's, MAC's, Power PC's, workstations, cable set-top boxes, video game hardware and the like and are within the scope of the present invention.

10 BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 shows the consignment node of the present invention may have a computer 10, a data storage device 22, a tape drive 24, a digital camera 12, a bar code scanner 14, a display 16, a keyboard 18, a laser printer 20, and a network connection 26. A participant user terminal is shown at 28.

15 Figure 2 shows a schematic block diagram showing the logic flow of a user log in at a consignment node.

Figure 3 is a schematic diagram showing the logical flow of the consignment node auction process.

Figure 4 is a schematic diagram showing the logical flow of the 20 consignment node market or browse mode.

Figure 5 is a schematic block diagram showing the logical flow for posting a new used good on the consignment node.

Figure 6 is a schematic diagram of a subroutine that may be used to post

auction bids.

Figure 7 is a schematic diagram of a subroutine that may be used by the consignment node auction process to receive participant auction bids.

Figure 8 is a schematic diagram showing the logical flow for a subroutine that may be used to transfer ownership of an item.

Figure 9 is a schematic diagram showing the logical flow for a consignment node in-store sale of a good.

Figure 10 is a schematic diagram showing the logical flow of post-processing and analyzing consignment node sales.

10 Figure 11 is a schematic diagram showing the logical flow of the consignment node Agent handler subroutine.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

It is understood that the get session identification procedure 100 is a 15 routine that monitors the communication ports and virtual communication ports residing on a protocol stack. The consignment node may use, for example, a X:25 interface card, available from Eicon Corporation or Frontier Corporation to execute an X.25 protocol stack in a PC workstation. The get session identification 100 program may monitor the X.25 protocol for 20 incoming calls. If the program identifies an incoming call it may answer the call by transmitting the appropriate X.25 packet to the network on the appropriate virtual channel. It is understood that other protocols, such as TCP/IP, DECNET, SNA and ATM are within the scope of the present

invention and that multiple protocol stacks may simultaneously execute in a consignment node. Therefore, the get session identification program 100 may have multiple instances to connect and monitor the various protocols. After the get session identification 100 has appropriately answered an incoming call 5 to the consignment node, it may invoke the display welcome message and menu routine 102.

It is understood that the get session identification 100 provides sufficient information to the display welcome message and menu 102 to allow the display welcome message and menu 102 to connect to the 10 appropriate session or virtual channel. At this juncture, if the participant is using an approved interface program, the interface program will send a predetermined code to indicate its version and other characteristics of its display driver. If a participant is logging in from a TTY terminal or other terminal the display welcome message and menu 102 may detect this 15 information and send the appropriate TTY welcome message. It is understood that the welcome message is viewed by the consignment node user as virtual advertising space that may be sold by the consignment node user or coordinated with the master control node (discussed in detail below). The participant may respond to the display welcome message and menu 102 20 program by giving an appropriate log on response 104. The get log on response 104 may verify and grant a level of access privileges to the participant. It is understood that the consignment node user may require the get log in response 104 to retrieve a credit card number, pin number, user ID

and the like, to grant access privileges. If a participant is using a TTY terminal those sessions may be shunted to the download interface program (DIP) 106 routine to receive an appropriate interface program from the consignment node. The DIP 106 may present a list of choices as to what version interface 5 program should be downloaded, such as DOS, Windows, UNIX, MAC platforms and what transfer program is desired such as Kermit, Xmodem, FTP and the like. A participant with a participant interface program may also elect to receive a new interface program from the DIP 106. It is understood that an older, no longer supported interface program participant may be 10 shunted to the DIP 106 to receive a new interface program.

A participant with a supported interface program may select the auction 108, market 110 or agent handler 112 sections of the consignment node. If a participant selects auction 108 the participant may be presented with a menu of auction selections such as auctions in session, future auction 15 times, dates, locations and topics, and auction preview. If a participant selects auctions in session the participants' session is passed to the appropriate auction handler, as discussed below. If a participant selects future auctions the participant will be given a list of future auction times, dates, terms, locations and topics of auctions on this and other consignment nodes. It is 20 understood that these displays represent a virtual advertising opportunity for the consignment node user and the advertising space may be sold by the consignment node user or by the master control node. If the participant selects the auction preview, the auction process 108 passes the participant

session to the market session 110 with data that indicates an auction preview desired by the user.

If the participant selects the market 110 choice the participant is given a menu of markets that the participants may browse, discussed further below.

5 If the participant selects the agent handler 112 the participant may be provided with an electronic form to create a search for a good. The participant may then execute this Agent's search request to search the network of consignment nodes databases to look for the desired goods. The Agent is discussed more fully below. The Agent Handler 112 also receives incoming 10 calls from other agents to process the external agents search request on the consignment node. The participant interface and consignment node participant functions are discussed in detail below. The discussion now turns to the operation of the consignment node by the user.

Figure 3 shows a logical flow diagram of the steps the consignment 15 node may use to create a database record of a good for sale or for auction.

The consignment node user may invoke the consignment node program to enter the posting 200 mode to create a data record for the good. The posting 200 mode initializes 204 the consignment node to receive information on a new good. The initialization 204 step displays a data record 20 with data fields on the consignment node terminal for the user to fill in information on the good. The initialization step 204 also initializes the consignment node peripheral devices such as the digital camera 12 and the printer 20. The consignment node user then "photographs" or digitizes the

image of the good from one or more perspectives as well known to the digital camera arts. The consignment node receives the digitized image(s) at receive image 206 step. The consignment node program then prompts the consignment node user for information on the good 208. The consignment node receives information 210 that the consignment node user inputs to the data record displayed at step 208. The consignment node program verifies 212 that the necessary information, such as owners name, reserve price, market or auction designation is in the data record. The verify step 212 will reject the record and return the consignment node user data entry mode 210 if the 10 record does not have the minimum information. If the record is verified 212 as complete enough to commit to the consignment node database, a data record is created 214 and linked into the consignment node database. The consignment node program then generates and prints a bar code 216 that indicated the data record. The bar code system is used by the consignment 15 node to maintain an accurate inventory and is a hook for local sales (discussed below). The posting routine may then exit 218 and return from the posting program. By repeating the posting routine of figure 3 the consignment node user may build a database of goods for the consignment node market, auction and/or agent searches.

20 Figure 4 shows the logical block flow diagram of the processes the consignment node may take to execute an auction. It is understood that the consignment node user may manually invoke the auction process, or may schedule the consignment node to execute the auction process. The auction

process begins by initializing 250 the data structures, records, queues and the like to conduct the auction process. The connection between the auction process and auction participants is discussed below. The auction process gets the first item to be auctioned 252 from the database of goods to be auctioned

5 254. The consignment node then calculates the opening bid 256 by a predetermined formula such as 50% of the reserve or general solicitation of an opening bid is posted to the auction participants 258. The consignment node auction mode then scans the participants for a higher bids 262. If a higher bid is found the new bid is posted 264. It is understood that the steps of

10 checking for bids 260 determines if the bid is higher 262 and posting the new higher bid 264 is repeated until no higher bids are received. After the typical auction closing of going once ... twice ... three times the auction is closed 266. The consignment node auction program then compares the highest bid received with the good's reserve price 268 to determine whether to transact

15 the sale. If the highest bid is greater than the reserve price the consignment node auction process posts sold! for xxx amount to the auction participants and calls the transfer ownership subroutine 270 discussed further below, and transfers the ownership of the good. If the highest bid is less than the reserve price the consignment node auction process announces no sale! 272 to the

20 auction participants. The auction process then proceeds 274 to get the next good to be auctioned 278. The consignment node auction process is then repeated until all the goods to be auctioned have been run through 278. The consignment node auction may then close and terminate the participant

sessions 280. It is understood that the transfer ownership 270 sub-routine may require time to clear the transaction and, therefore, may be best implement as a spawned child process to the auction process. This will keep the consignment node auction executing at an exciting and fast pace for the 5 participants. The consignment node auction process itself may execute in several instances to provide simultaneous auctions on a consignment node. Thus a consignment node may conduct several simultaneous auctions on several virtual runways. It is understood that in the auction mode the consignment node and the participant interface software may communicate 10 using a protocol that allows the consignment node auction driver to "point to" locations stored in the participant interface software, to cause the participant interface software to generate the sound of a auctioneers voice on the sound blaster, or equivalent board. Thus, the present invention uses pre-stored sound samples of different auction prices and auctioneer "string" 15 along aural calls inside the participant interface software, and allows the generation of said pre-stored sound bites to be invoked by the consignment node driver through the said special protocol. This method greatly reduces the bandwidth necessary for a consignment node to support the generation of exciting auctioneers calls at a plurality of participant terminals. It is 20 understood that the generation of an audio bit stream from the consignment node to the participant terminals is also with the scope of the present invention.

Figure 5 shows the logical flow for the post bid subroutine 300. The

post bid sub-routine may be invoked from several consignment node processes, those specifically described thus far are the post opening bid 258 and posting bid 264 logical processes. The post bid 300 sub-routine is used to communicate between a consignment node and multiple participants. The 5 post bid 300 sub-routine gets participant session identifications 302 from a data record or data structure that contains a list of session identifications of participants who have logged onto the auction sessions. The next step sends the bid passed to the post bid 300 subroutine to each participant session identified in the data structure 306. Bids are posted to each participant 10 through an appropriate driver 308. The driver may be identified for each particular user session. For example, a PC user logged into the consignment node via an X.25 virtual channel may require a host PAD driver in the consignment node to communicate asynchronously to the PC terminal interface application. A network user may require a TCP/IP driver to connect 15 between the consignment node and the participant networked terminal.

After communicating the bid to participants through the appropriate device driver 308, the post bid sub-routine may exit and return 310 to the calling routine.

Figure 6 shows the consignment node subroutine to check participant 20 sessions for bids during the auction mode. Check for bids 350 maybe a subroutine called by the auction program to scan for bids. It is understood that when a participant logs into the consignment node and selects the auction mode, (see figure 2); the participant's session identification is passed

to a data structure. The data structure maybe used by the check for bids 350 sub-routine to correctly identify participants at a particular virtual auction.

As noted above, the consignment node may support multiple simultaneous auctions, therefore, may require multiple instances of the aforesaid data

5 structure. The check for bids sub-routine 350 opens or connects to the appropriate data structure storing or holding participant session identifications who are participating in the check for bids calling auction program instance at the get session identification step 352. The buffers associated with each session is scanned for an input 354. If a participant has

10 input an "exit" command or symbol 356 the routine removes that participant's session identification from the auction identifying data structure and allows the participant to exit 362 the auction. The participant's session identification may be returned to a data structure that allows the participant to return to the consignment nodes main menu, see figure 2, or terminate the

15 participant session. The subroutine then compares the bids and takes the highest bid 358. If bids are tied for the highest bid the sub-routine may use the first received bid and reject the others 358. The sub-routine then notifies the participant session who had the highest bid 360. It is understood that the take the highest bid step 358 and notify bidder step 360 are aware of the current bid

20 price for a good and will not allow a lower bid to be accepted. It is understood that the participant session buffers are flushed after they are scanned to remove old or latent bids. The check for bids sub-routine then returns to its calling routine.

Figure 7 shows the transfer ownership routine 400 that may be used to transfer the ownership of goods and collectibles in the consignment node. The transfer ownership sub-routine may be called from several consignment node modes and processes to effect the transfer of legal ownership. The first 5 step in the transfer ownership sub-routine 400 may be to verify a participant purchaser information 402. It is understood that the consignment node may use a variety of well known authenticating procedures to verify a participant, such verification techniques include personal identification numbers (PINS), passwords, call back, and a plethora of encryption techniques and personal 10 information identification means to provide a reliable verification technique.

It is understood that a consignment node user may have established a credit or deposit account for the participant from past sales or the transfer of funds and the verify step 402 may connect the participant to the account. The clear charge 404 step is used to clear the participant consignment node transaction. 15 It is understood that this may be via an external credit card clearing network, a connection to a credit account, or though one of the many proposed electronic fund transfer schemes such as debit cards, e-money, and clearinghouses. After the transaction clears the charge 404, the consignment node credits the consignment node users commission account 406 to extract 20 the consignment node transaction fee. The consignment node then transfers legal ownership 408 of the good by changing the ownership entry in the data record in the consignment node of the good. The consignment node may then print a record of the transaction 410. It is understood that step 410 may

also be used to keep a log on the consignment node storage or tape drive. The consignment node then removes the good from sale or auction status 412. It is understood that the data record representing the good is "locked" during the transfer ownership sub-routine to prevent collisions of actions and transfers of the good. If the participant has elected to ship goods then the consignment node will print a shipping label 404 for the consignment node user to attach to the good for shipment. The transfer ownership routine may then exit 416. If the participant has elected to re-post the good or collectable the participant may specify a new reserve or offer price for the good or collectable. It is understood that the purchasing participant may elect to leave the good or collectable at the consignment node and post a new offer or reserve price and may identify that the good is on the market, e.g. may be bought and sold at any time, or that the good is awaiting an auction date. Moreover, the participant may elect to have the good viewable on the market or "invisible" to the market while awaiting an auction date 422. It is understood that the participant may elect to leave the good at the purchased consignment node and electronically transfer the offering of a good to another consignment node. It is understood that consignment node users may run a "trusted" network between consignment nodes to provide the trust between merchants, that the goods exists and that the network between the consignment nodes to provide for electronic presentment of a good is a secure network connection. This allows collectable goods to be concentrated for a single electronic auction or virtual collectable market on a market maker

consignment node without incurring the costs of shipping the goods to a central location to bring the good to the market maker consignment node. It is understood that the trusted posting of goods on a market maker node is a value added feature a small town consignment node user can provide to his immediate collector community. It is understood that the master central node may also serve as a legal consignment node franchising authority to provide enforcement of integrity, security and quality control for the consignment node network.

Figure 8 shows the consignment node routine that may be used to establish a virtual market. The market 450 may be selected from the consignment node main menu, see figure 2, to allow a participant to browse the consignment node goods database. The market 450 will display to the participant market categories 452, categories may be defined by the consignment node user to reflect the specialization of his consignment node and the specialized markets or miscellaneous markets for his goods. The consignment node then gets the participants response 454 to the market choices. The consignment node may then display market sub-categories 456. Again, the consignment node user may specify market sub-categories to reflect the specialization of the consignment node. The consignment node may then display items 458 and get the participant or market user response 460 to the displayed choices. It is understood that the participant may browse or scroll through the goods on the market 462, 458, 460 until the participant responds with a desire to exit the market 463. If the response is a desire to

transfer to the market root directory 464 then the consignment node will return the participant to the market subcategories 456. If the participant responded with a desire to terminate the session 466 the consignment node will exit the market and terminate the participant's session. It is understood 5 that during the browse loop 458, 460, 462 a participant may elect to buy or make an offer on a good and may invoke the transfer ownership routine, see figure 7, to effect the transfer of a good's ownership. It is also understood that a participant may make an offer on a good below the asking (or offered) price. Such a proposed offer may be stored by the consignment node and used to 10 notify the good owner. The good owner may then accept the counter offer or reject. It is understood that a participant counter-offer may be made subject to an acceptance before date. It is also understood that a participant may establish a "buy at" or "sell at" price/quantity for any good in the market.

Figure 9 shows a logical flow diagram of the process that may be used to 15 transact the transfer of ownership of goods on a consignment node at the store where a consignment node may be located. The consignment node user invokes the store sale sub-routine 500 from a consignment node user terminal, see figure 1. The consignment node user may use the bar code scanner to scan the bar code of the good for sale 502. It is understood that the 20 consignment node user may manually recall or search the consignment node database for the data record of the good or may let the consignment node software use the bar code to automatically retrieve the record 504. The data record is then scanned to retrieve price and sale information on the good 506.

It is important to note that a good, while on display at a consignment node user's shop may have transferred ownership and changed price via network participants. The consignment node then displays this information 508 at the consignment node user terminal. The store customer may then elect to 5 purchase the good. The consignment node may process a store customer purchase request by calling the appropriate sub-routine to transfer ownership, see figure 7, of the good.

Figure 10 shows a logical process diagram for the central node to collect and process data concerning transactions on a plurality of consignment nodes 10 and provide value added feed back to consignment node users on market positions and trends. Data processing 550 may be executed on a consignment node or the central node to extract transaction data from a consignment node. It is understood that the tape drive, or storage device may be used to log network transactions on the posting, auctioning, buying and selling of goods 15 and collectibles on a consignment node. This information may be collected by the central node over the consignment node network. The central node may then plot sales, sale date, price over time and the like to create graphs of market performance 554. It is understood that the data correlation and processing steps 554, 556 may be customized to provide a particular 20 consignment node user with useful market information. The central node may also provide hard copies or electronically transfer the information to the consignment node users. It is understood that this may be a value added feature of a service that may be provided by a franchiser. It is understood that

the central node may log into a consignment node, with well known remote processing and data transfer techniques such as the rlogon and FTP UNIX utilities to make changes to the aforesaid virtual advertising space on a consignment node.

5 Figure 11 shows the agent handler the consignment node may use to establish agent-to-agent and consignment node - to - consignment node connections to process participant agent requests. The agent handler 600 may be entered by a predetermined series of codes and verification procedures to verify a request for an agent connection to the consignment node is from a 10 bona fide agent and a bona fide consignment node. Once this is verified the agent handler may establish a session for the requesting agent 602. The requesting agent may then transfer its agents request to the consignment node 604 and the consignment node may then check its local database 606 to try to match the agents search request. The agent handler may then respond to the 15 agents request 608 and terminate the agent session 610.

Many variations of the present invention are possible with the present invention and are within the spirit and scope of the present invention. Those skilled in the arts will be able to make many variations on the present invention once this invention is known to the arts.